

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|--|------------------|---------|------------------|
| L1 | 25 | 703/8.ccls. and @pd>="20081201" | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/05 15:26 |
| L2 | 49 | (280/5.5\$).ccls. and @pd>="20081201" | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/05 15:34 |
| L3 | 98 | (stewart near platform) and spring | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/05 15:51 |
| L4 | 4 | (coil adj spring) near (design or specification) and (stewart adj platform) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/05 16:16 |
| L5 | 2 | ((coil adj spring) near (design or specification))and (force near sensor) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/05 16:17 |

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| L10 | 0 | (parallel adj mechanism) and (spring near substitut\$4) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/05 16:34 |
| L11 | 2 | (parallel adj mechanism) and (spring near alternative) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/05 16:35 |
| L12 | 87 | (parallel adj mechanism) and (suspension) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/05 16:35 |

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| L4 | 222 | (coil adj spring) near design | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/06 11:04 |
| L7 | 33 | spring same design and (testbench or (test adj bench)) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/06 11:21 |
| L8 | 146 | spring same design and (load near test) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/06 11:24 |

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| S41 | 323 | suspension and (vehide or automobile) and (six adj degree) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/05 18:34 |

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| L14 | 33 | (griffis.in. or duffy.in.) and (coil adj spring) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/05 16:55 |
| L15 | 51 | (griffis.in. or duffy.in.) and (spring same design) | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/05 16:57 |
| L16 | 35 | (griffis.in. or duffy.in.) and platform and spring | US-PGPUB; USPAT; EPO; DERWENT | OR | ON | 2009/05/05 16:58 |

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R Cie [sacut] lak, A Morecki - Robotica, 1999 - Cambridge Univ Press

... consists of eight elastic elements (coil springs) (Fig. ... The bending larger than 30 **degrees** is not ... the control of the manipulator: 1-6-proportional distributors ...

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N Erverdi, O Koyuturk, N Kucukkeles - Journal of Orthodontics, 1997 - Br Orthodontic Soc

... (mm) U6-ML 15 60-2 6-4 68-8 7-3 *** (degree) U5-RP 15 8-4 3-8 9-2 4-5 *

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S Maeda, K Abe, K Yamamoto, O Tohyama, H Ito - Micro Electro Mechanical Systems, 1996, MEMS'96, Proceedings ..., 1996 - ieeeexplore.ieee.org

... expected to replace the operator's hands[5][6]. Shape memory ... was required to bend the tip by 60 **degrees** The SMA actuator combined two SMA coil springs ...

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book Mechanical engineering design

JE Shigley, CR Mischke, RG Budynas - 2004 - books.google.com

... He was awarded the BSME and BSEE **degrees** of Purdue University, and the MS of the ... 6 Failures Resulting from Static Loading 249 ... 10 Mechanical Springs 509 ...

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GEO 600 triple pendulum suspension system: Seismic isolation and control

MV Plissi, CI Torrie, ME Husman, NA Robertson, KA ... - Review of Scientific Instruments, 2000 - link.aip.org

... a gain factor) for all six controllers is ... is additional actuation providing three **degrees** of freedom ... intermediate level the feedback uses coil-magnet motors ...

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An efficient numerical method for predicting the natural frequencies of cylindrical helical springs

V Yıldırım - International Journal of Mechanical Sciences, 1999 - Elsevier

... include the results that can be used directly in the **spring design** [4—30]. ... a typical unrestrained nodal point on the system, there are **six degrees** of freedom ...

Cited by 18 - Related articles - Web Search - BL Direct - All 4 versions

Multistage active vibration isolation system

SJ Richman, JA Giaime, DB Newell, RT Stebbins, PL ... - Review of Scientific Instruments, 1998 - link.aip.org

... designed to provide 40 dB of isolation in all **six rigid-body degrees** of freedom. ... plate and is suspended beneath the first by stainless steel **coil springs**. ...

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N Hu - International Journal for Numerical Methods in Engineering, 1992 - interscience.wiley.com

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... Similarly, upon cascading the desired **coil spring** stiffness to the **coil spring** component **design** problem, packaging or fatigue constraints might result in ...

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Coil spring counterbalance hardware assembly and connection method therefor

ME Sterner Jr... - US Patent 5,157,808, 1992 - Google Patents

... an additional object of the present invention to provide an improved **coil spring** counterbalance hardware assembly which is efficient in **design**, economical in ...

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book **Spring design**: a practical treatment

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Optimal design of machine elements using genetic algorithms.

JL Chen, YC Tsao - CHUNG-KUO CHI HSUEH KUNG CH'ENG HSUEH PAO., 1993 - csa.com

... Finally, the capability of genetic algorithms in solving optimal **design** problems is demonstrated by the welding **design** and **coil-spring design** problems. C 601. ...

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Reliability-based design of automobile components

Y Zhang, Q Liu - Proceedings of the Institution of Mechanical Engineers, Part ..., 2002 - Prof Eng Publishing
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R Limpert - 1978 - Michie

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Y Zhang, Q Liu - Proceedings of the Institution of Mechanical Engineers, Part ..., 2002 - Prof Eng Publishing
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K Monteverde, DJ Teece - The Bell Journal of Economics, 1982 - jstor.org

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BM Eickhoff, JR Evans, AJ Minnis - **Vehicle System Dynamics**, 1995 - informaworld.com

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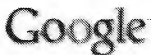
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spring design. This type of spring was loading **fixture**. In February ... the **test**

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HA Al-Qureshi - Journal of Materials Processing Tech., 2001 - Elsevier

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JO Almen, AL Boegehold - *Proceedings*, 1935 - American Society for Testing and Materials.

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DA Wilson, RS Sharp, SA Hassan - *Vehicle System Dynamics*, 1986 - informaworld.com

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AE Baumel, JJ McPhee, PH Calamai - **Computer methods in applied mechanics and engineering**, 1998 - Elsevier

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Effects of vehicle suspension design on dynamics of highway bridges

MF Green, D Cebon, DJ Cole - **Journal of Structural Engineering**, 1995 - link.aip.org

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... the **vehicle design** problem, that value becomes a target value at the system-level **design** prob- lem, in which the **suspension design** variables (coil **spring** stiff ...

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Optimum design of a passive suspension system of a vehicle subjected to actual random road ...- Full Text@IngentaConnect

JA Tamboli, SG Joshi - **Journal of sound and vibration**, 1999 - Elsevier

... the **design** variables, namely the **spring** stiffness and viscous damping coefficient of the **suspension** system. 5. To compare the RMSAR of a **vehicle** subjected to ...

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... $K_s = K_{sd} = K_s = 38000 \text{ N/m}$ tire **spring** stiffness, K ... mass, $U = 1.4 \text{ m}$ distance between rear of **vehicle** and CG ... 3 Active Control System **Design** In this section, we ...

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RS Sharp, DA Crolla - **Vehicle System Dynamics**, 1987 - informaworld.com

... ROAD **VEHICLE SUSPENSION SYSTEM DESIGN** ... is the problem of varying the stiffness without at the same time effectively varying the free **spring length**, the ...

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A review of modelling methods for railway vehicle suspension components

BM Eickhoff, JR Evans, AJ Minnis - **Vehicle System Dynamics**, 1995 - informaworld.com

... a particular problem for friction damped **vehicles** where the ... levels may vary widely from the **design**, often as a ... 5.3.1. Leaf **Spring Suspensions** The simplest type ...

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Active damping in road vehicle suspension systems

D Karnopp - **Vehicle System Dynamics**, 1983 - informaworld.com

... are nonlinear by nature and by **design**, only linear ... A **spring**, for example, can relate a force to a ... simplest possible model of a **vehicle suspension** system shown ...

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... The optimisation is carried out to obtain the **design variables**, namely the **spring stiffness** and ... 5. To compare the RMSAR of a **vehicle** subjected to actual ...

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... a spec@c range for any given type of **spring**. ... will be subjected is essential for optimal **air suspension design**. ... Hz, which depend on road type and **vehicle speed** ...

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... Hence, the **design** of an appropriate **spring** constant and ... system is always an important research topic for achieving the desired **vehicle ride quality**. ...

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Active vehicle suspension control using intelligent feedbacklinearization

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... installed in parallel with a soft **spring** for static ... invariant **suspension** models for controller **design** and simulated ... subject to change during a **vehicle's** life ...

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W Rulka, E Pankiewicz - Multibody System Dynamics, 2005 - Springer
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 ... full **vehicle** system models from **vehicle design** data, and ... of linear and nonlinear **springs**, dampers, bushings ... integrated technology for full **vehicle** analysis 455 ...

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 ... inertias; - (non-linear) **springs**; - (non-linear ... requirements, integration between

design, virtual testing and ... interactions of the **vehicle** characteristics at ...

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... Therefore the equations for the **spring** strut, the stabiliser ... model directly applicable to fast **design** studies and ... A full **vehicle** model has been presented which ...

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... tyre stiffness k_s leaf **spring** 'envelope'stiffness ... scale truck components, so the **design** of the ... sprung four-wheel drive 'recreational' **vehicle** (all **suspension** ...

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... The simplest type of friction **suspension** is a ... of the wagon and from **vehicle** to **vehicle** depending on ... is obtained from the Brunninghaus **spring design** where all ...

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... by the posture of the subject in the **vehicle**. ... its **suspension** is superior to the standard **spring** seat in ... 2 × 3(2 seats × 3 postures) repeated measures **design**. ...

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 ... more tractable linear **design** techniques can be used. ... Next, the experimental **vehicle**
 response data was sub ... was relatively small (+/- 0.03m), the **spring** rate was ...
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... 21, a support table 23 mounted on **suspension** assembly B ... 24, 25 and 26 placed one on **vehicle** frame A ... 23 to extend in a direction **parallel mechanism** 34 which is ...

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R Allen, S Mitra, R Drake - US Patent 5,473,758, 1995 - Google Patents

... antilock braking systems, **automobile suspension** control for ... by the device user (the **automobile** manufacturer), a ... family, employ a **parallel mechanism** only, which ...

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... 7), the vehicle has one wheel mounted on ... has two functions: its spring **suspension** guarantees optimal ... any time and its particular **parallel mechanism** produce an ...

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... can regard the Adaptive **Suspension** Vehicle (ASV) Hexapod there described as an inverted multi-finger multi-freedom gripper grasping the earth's surface. ...

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A robotically assisted munition loading system

CC Nguyen, ZL Zhou, MD Bryfogle - Journal of Robotic Systems, 1995 - interscience.wiley.com

... hooks with respect to the **suspension** lugs must ... a modified version of a **parallel mechanism** proposed by ... Number BA40105, manufactured by Lucas **Automotive** Sensors. ...


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Key authors: [P Nanua](#) - [K Waldron](#) - [V Murthy](#) - [Y Qian](#) - [S Simon](#)

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The bounds and realization of spatial stiffnesses achieved with simple springs connected in parallel

S Huang, JM Schimmels - IEEE Transactions on Robotics and Automation, 1998 - [ieeexplore.ieee.org](#)
 ... argument) that general spatial stiffness can be equivalently modeled with a Stewart
 Platform-type **parallel mechanism** consisting of passive line **springs**. ...
 Cited by 49 - [Related articles](#) - [Web Search](#) - [BL Direct](#)

Static balancing of spatial four-degree-of-freedom parallel mechanisms

J Wang, CM Gosselin - Mechanism and machine theory, 2000 - Elsevier
 ... approach for the static balancing of planar linkages using **springs** has been ... As mentioned
 above, a statically balanced **parallel mechanism** is one in which the ...
 Cited by 52 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 6 versions

Virtual model control of a bipedal walking robot- ▶ [mit.edu](#) [PDF]

J Pratt, P DiIworth, G Pratt - 1997 IEEE International Conference on Robotics and ..., 1997 - [ieeexplore.ieee.org](#)
 ... with Virtual Model Control, we usu- ally talk in terms of **spring** set points ... Here
 we examine a **parallel mechanism** rep- resenting a simple, 2-D, bipedal robot ...
 Cited by 154 - [Related articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#) - All 20 versions

Static balancing of 3-DOF planar parallel mechanisms

T Laliberte, CM Gosselin, M Jean - IEEE/ASME transactions on mechatronics, 1999 - [ieeexplore.ieee.org](#)
 ... B. Mechanism with Parallelograms The planar 3-DOF **parallel mechanism** with
 parallelograms and with **springs** is shown in Fig. 4. This ...
 Cited by 24 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 2 versions

[PDF] ▶ Kinematics and workspace analysis of a parallel wire mechanism for measuring a robot pose

JW Jeong, SH Kim, YK Kwak - Mechanism and Machine Theory, 1999 - [dspace.kaist.ac.kr](#)
 ... 2.2. Forward kinematics The forward kinematics of a **parallel mechanism**
 is more difficult to solve than the inverse kinematics. In ...
 Cited by 35 - [Related articles](#) - [View as HTML](#) - [Web Search](#) - All 3 versions

[PDF] ▶ Haptic rendering of planar rigid-body motion using a redundant parallel mechanism

D Constantinescu, I Chau, SP DiMaio, L Filipozzi, ... - IEEE International Conference on Robotics and
 Automation, 2000 - [ece.ubc.ca](#)
 ... present a system for rendering planar rigid-body motion by means of a redundant
parallel mechanism. ... 2), p is the strain of the bond, K_r is the **spring** rate, a ...
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[PDF] ▶ Series elastic actuators

GA Pratt, MM Williamson - Proceedings of the IEEE/RSJ International Conference on ..., 1995 - [cs.cmu.edu](#)
 ... Minoru, and Imamura, Yuichi, "An Instru- mented Compliant Wrist Using a **Parallel**
Mechanism", Japan/USA ... J. of Robotics Research, V6, N1, **Spring** 1987 pp 3-14. ...
 Cited by 244 - [Related articles](#) - [Web Search](#) - All 7 versions

Static balancing of spatial parallel platform mechanisms—revisited

I Ebert-Uphoff, CM Gosselin, T Laliberté - Journal of Mechanical Design, 2000 - [link.aip.org](#)

... joints. Jean and Gosselin discuss the static balancing of a planar **parallel mechanism** using counterweights or **springs**. Dunlop and ...

Cited by 20 - Related articles - Web Search - BL Direct - All 2 versions

Kinetostatic modeling of N-DOF parallel mechanisms with a passive constraining leg and prismatic ...

D Zhang, CM Gosselin - Journal of Mechanical Design, 2001 - link.aip.org

... It is a 5-dof **parallel mechanism** with prismatic actuators. ... to if it is associated with a virtual joint, where is the stiffness of the virtual **spring** located at ...

Cited by 21 - Related articles - Web Search - BL Direct - All 3 versions

PLEASURE SHOE

L Hendricks - US Patent 3,777,374, 1973 - Google Patents

... a generally square configuration present invention wherein there is a **spring** or torque with opposite sides of said square turn being **parallel mechanism** 11 that ...

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Key authors: [G Pratt](#) - [J Pratt](#) - [P Dilworth](#) - [U Mai](#) - [H Ronne](#)

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PLEASURE SHOE

L Hendricks - US Patent 3,777,374, 1973 - Google Patents

... invention shown installed 35 Pression coil sPrin8 therebetween, said **coil spring** in a ... with opposite sides of said square turn being **parallel mechanism** 11 that ...

Cited by 12 - [Related articles](#) - [Web Search](#) - All 2 versions

Work machine with operator's cabin

T Higuchi, K Miyaki - US Patent 5,984,036, 1999 - Google Patents

... to the opera- tor's cab by means of the **parallel mechanism** and torsion ... anti- oil damper 25 which is positioned centrally of the **coil spring** vibrational mounts ...

Cited by 4 - [Related articles](#) - [Web Search](#) - All 6 versions

PARALLEL MECHANISM

JO Lenz - US Patent 3,640,231, 1972 - Google Patents

... presented to tool 18, and by moving the **parallel mechanism** transversely ... thereon. Abutment member 62 abuts the end of a **coil spring** member ...

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COIN-OPERATED DISPENSING DEVICE

US Patent 3,565,228, 1971 - Google Patents

... The support brackets 20 have mutually **parallel mechanism**, the various parts of the housing 12 ... The solenoid 134 is sche- of a **coil spring** 114 is connected to the ...

Cited by 1 - [Related articles](#) - [Web Search](#) - All 2 versions

Analysis of a planar 3 degree-of-freedom adjustable compliance mechanism

WK Kim, DG Kim, BJ Yi - Journal of Mechanical Science and Technology, 1996 - Springer

... 2. Compliance Characteristics of a Planar 3-DOF **Parallel Mechanism** ... To obtain a passive compliance effect, a passive **coil spring**, a rubber, a joint member with ...

Cited by 1 - [Related articles](#) - [Web Search](#) - All 2 versions

Rear hub drive engagement mechanism

CD King - US Patent 5,964,332, 1999 - Google Patents

... and 11 do not currently meet, axial force from the **coil spring** 14 will ... engagement 45 freewheeling direction (the direction in which the **parallel mechanism** works ...

[Web Search](#) - All 2 versions

Embroidery sewing machine

H Sakakibara, K Shinoda, Y Murata - US Patent 5,383,412, 1995 - Google Patents

Page 1. US005383412A United States Patent Sakakibara et al. [ii] Patent

Number: [45] Date of Patent: [54] EMBROIDERYSEWINGMACHINE ...

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Voting machine with band interlock

CM O'neal - US Patent 3,934,794, 1976 - Google Patents

... An interlocking band extends **parallel mechanism** was added to automatically perform many with the voting keys between each of the first and sec- functions, such ...

[Related articles](#) - [Web Search](#) - All 2 versions

Fruit treating apparatus

S Yasuhiro, S Toshio, K Shuichi, T Toshio, O Sadao ... - US Patent 4,013,001, 1977 - Google Patents

Page 1: United States Patent [in 4,013,001 [19] Yasuhiro et al. [45] Mar.

22, 1977 [54] FRUIT TREATING APPARATUS [75] Inventors: Sato ...

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Actuator pump

DW Mills... - US Patent 5,651,302, 1997 - Google Patents

... automation, havmg a desiSn Plurahty of deⁿignedly different **parallel mechanism** control and ... The first-cylinder fluid represented by a **small coil spring** that is ...

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[PDF] ► [Holonomic omni-directional vehicle with new omni-wheel mechanism](#)

R Damoto, W Cheng, S Hirose - IEEE International Conference on Robotics and Automation, 2001 - inf.fu-berlin.de

... chains via axle receiving units that **substitute** for chain ... of the Omni-Disc constitute a kind of **parallel mechanism**. ... the Omni-Disc is a leaf **spring** that allows ...

Cited by 10 - Related articles - View as HTML - Web Search - BL Direct - All 4 versions

[Kinematic decoupling in mechanisms and application to a passive hand controller design-](#)

► [mcgill.ca](#) [PDF]

V Hayward, C Nemri, X Chen, B Duplat - Journal of Robotic Systems, 1993 - interscience.wiley.com

... obtained from a mechanism in general and a **parallel mechanism** in particular ... By construction, the contribution of the **springs** to joint forces ... we **substitute** for h ...

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[Fundamental mechanism of dinosaur-like robot TITRUS-II utilizing coupled drive](#)

K Takita, R Hodoshima, S Hirose - 2000 IEEE/RSJ International Conference on Intelligent Robots ..., 2000 - ieeexplore.ieee.org

... This means that they try to realize the behavior "walking". However, the ultimate purpose of developing these robots is to create **substitute** labor. ...

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[Kinematic calibration of the parallel Argos mechanism](#)

P Vischer, R Clavel - Robotica, 2001 - Cambridge Univ Press

... Typical representatives of **parallel mechanism** are the famous Delta robot 2 or a novel parallel wrist mechanism called Argos 3 shown in Figure 1. The Argos ...

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[Basic concept and mechanical design of dinosaur-like robot TITRUS-II](#)

K Takita, R Hodoshima, S Hirose - Industrial Electronics Society, 2000. IECON 2000. 26th ..., 2000 - ieeexplore.ieee.org

... This means that they try to realize the behavior of "walking". However, the ultimate purpose of developing these robots is to create **substitute** labor. ...

Web Search - BL Direct

[Development of miniature dinosaur-like robot TITRUS-III](#)

K Takita, T Katayama, S Hirose - 2001 IEEE/RSJ International Conference on Intelligent Robots ..., 2001 - ieeexplore.ieee.org

... This means that they try to realize the behavior "walking". However, the ultimate purpose of developing these robots is to create **substitute** labor. ...

Web Search

[PDF] ► [Dynamics and control of parallel manipulators with actuation redundancy](#)

C Hui - 2001 - citeseerx.ist.psu.edu

... control methods were employed to a direct drive **parallel mechanism** with redundant ... are of the same type and the **spring** constants associated with all the drive ...

Cited by 3 - Related articles - View as HTML - Web Search - Library Search - All 2 versions

Suppression of oxidative damage by *Saccharomyces cerevisiae* ATX2, which encodes a manganese- ... - ► [nih.gov](#) [PDF]

SJ Lin, VC Cuiotta - Molecular and Cellular Biology, 1996 - Am Soc Microbiol
... These liquids tests were a more quantitative **substitute** for plate assay measurements of total growth and were not employed for measurements of cell doubling ...
Cited by 40 - Related articles - Web Search - [BL Direct](#) - All 6 versions

FIG. 1J

US Patent 3,635,111, 1972 - Google Patents
... **substitute** for apertures or slits 42 is that ... Suitable **springs** are provided to bias the tools ... or another suitable prime controlled by **parallel mechanism** so that ...
Cited by 2 - Related articles - Web Search - All 2 versions

APPARATUS FOR MAKING PERFORATIONS IN CORRUGATED TUBES

US Patent 3,620,115, 1971 - Google Patents
... An advantage of discrete apertures as a **substitute** for apertures or slots 42 is that the chips or fragments of plastic material which are 35 removed from ...
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Static balancing of spatial six-degree-of-freedom parallel mechanisms with revolute actuators

CM Gosselin, J Wang - Journal of Robotic Systems, 2000 - interscience.wiley.com

... approach for the static balancing of planar linkages using **springs** has been ... As

mentioned above, a statically balanced **parallel mechanism** is one in which the ...

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Geometric analysis of antagonistic stiffness in redundantly actuated parallel mechanisms

BJ Yi, RA Freeman - Journal of Robotic systems, 1993 - interscience.wiley.com

... illustrated here in terms of a "fully **parallel**" **mechanism** consisting of ... Now, an

alternate expression of eq. ... behavior can be modeled as a **spring** action with ...

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[\[PDF\] ► Series elastic actuators](#)

GA Pratt, MM Williamson - Proceedings of the IEEE/RSJ International Conference on ..., 1995 - cs.cmu.edu

... direct drive is a feasible **alternative** for industrial ... mented Compliant Wrist Using

a **Parallel Mechanism**", Japan/USA ... Robotics Research, V6, N1, **Spring** 1987 pp 3 ...

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Soluble surface proteins from Helicobacter pylori activate monocytes/macrophages by ...

► [nih.gov](#) [\[PDF\]](#)

UE Mai, Gi Perez-Perez, LM Wahl, SM Wahl, MJ ... - Journal of Clinical Investigation, 1991 -

pubmedcentral.nih.gov

Page 1. Soluble Surface Proteins from Helicobacter pylori Activate Monocytes/

Macrophages by Lipopolysaccharide-independent Mechanism ...

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PARALLEL MECHANISM

JO Lenz - US Patent 3,640,231, 1972 - Google Patents

... ment of the **parallel mechanism** toward and away from the 30 ... **spring** inside of cover

member 76 acting upon a ... preferred embodiment and one **alternate** construction ...

Cited by 1 - [Related articles](#) - [Web Search](#) - All 2 versions

Glucose repression in fungi

H Ronne - Trends in Genetics, 1995 - Elsevier

... The cAMP pathway ble **alternative** mechanism for glucose ... both by Mig1 and by a second,

parallel mechanism. ... 1 Magasanik, B. (1961) Cold **Spring Harbor Symp**. ...

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RCC characteristics of planar/spherical three degree of freedom parallel mechanisms with joint

... ► [psu.edu](#) [\[PDF\]](#)

WK Kim, JY Lee, BJ Yi - Intelligent Robots and Systems' 96, IROS 96, Proceedings of ..., 1996 -

ieeexplore.ieee.org

... An **alternative** planar configuration with more adjustable ... by the same number of linear

springs. ... planar three degree-of-freedom **parallel mechanism** which consists ...

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Implementation of Stewart platform based force-torque sensor

TA Dwarakanath, TK Bhaumick, D Venkatesh - 1999 IEEE/SICE/RSJ International Conference on Multisensor ..., 1999 - ieeexplore.ieee.org

... The form of the **parallel mechanism** is reciprocal to that of a ... of a passive Stewart platform with **spring** loaded legs ... The angles made by **alternate** segment of the ...

Cited by 12 - Related articles - Web Search - All 2 versions

Parallel kinematic machines (PKM)—limitations and new solutions

G Pritschow - CIRP Annals-Manufacturing Technology, 2000 - Elsevier

... Telescope in axial direction xpdirection **spring** constant C ... are to offer a real **alternative** to conventional ... degree- of-freedom 3-PRPS **parallel mechanism**: IEEE J ...

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Work machine with operator's cabin

T Higuchi, K Miyaki - US Patent 5,984,036, 1999 - Google Patents

... tor's cab by means of the **parallel mechanism** and torsion bars ... necting member functions to restrict **alternate** upward and ... is arranged to have a **spring** constant in ...

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... approach for the static balancing of planar linkages using **springs** has been ... As mentioned above, a statically balanced **parallel mechanism** is one in which the ...

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GA Pratt, MM Williamson - Proceedings of the IEEE/RSJ International Conference on ..., 1995 - cs.cmu.edu

... direct drive is a feasible **alternative** for industrial ... mented Compliant Wrist Using a **Parallel Mechanism**", Japan/USA ... Robotics Research, V6, N1, **Spring** 1987 pp 3 ...

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Compliant constant-force mechanism and devices formed therewith

A Midha, MD Murphy, LL Howell - US Patent 5,649,454, 1997 - Google Patents

... body model in which each compliant segment is modeled as two rigid segments interconnected by a torsion **spring**. ... An in-**parallel mechanism** such as that of FIG. ...

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Kinematic decoupling in mechanisms and application to a passive hand controller design-

► mcgill.ca [PDF]

V Hayward, C Nemri, X Chen, B Duplat - Journal of Robotic Systems, 1993 - interscience.wiley.com

... Another **alternative** for realizing a given stiffness is ... fitted with individual return **springs**, possibly dampers ... in general and a **parallel mechanism** in particular ...

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Glucose repression in fungi

H Ronne - Trends in Genetics, 1995 - Elsevier

... The cAMP pathway ble **alternative** mechanism for glucose ... both by Mig1 and by a second, **parallel, mechanism**. ... 1 Magasanik, B. (1961) Cold **Spring** Harbor Symp. ...

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PARALLEL MECHANISM

JO Lenz - US Patent 3,640,231, 1972 - Google Patents

... An **alternative** BACKGROUND OF INVENTION range of movement ... much as 20 means urging the **parallel mechanism** in one ... aforesaid **spring** means and thus the bias force ...

Cited by 1 - Related articles - Web Search - All 2 versions

Latch mechanism for a circuit breaker

DR Venzke, TI Hood, JL Miller - US Patent 5,444,423, 1995 - Google Patents

... manufacturing and assembly, and cations and **alternative** forms, specific ... a latch 10, a latch **spring** 12, and ... A pair of **parallel mechanism** frame 25 sides 24 house ...

Cited by 3 - Related articles - Web Search - All 7 versions

A five-bar finger mechanism involving redundant actuators: analysis and its applications

BJ Yi, SR Oh, IH Suh - IEEE Transactions on Robotics and Automation, 1999 - ieeeexplore.ieee.org

... potential input locations in structurally **parallel mechanism** or closed ... under force equilibrium, a **spring**-like behavior ... An **alternative** form of (43) is given in a ...



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Direct kinematic solution of a **Stewart platform**

P Nannu, KJ Waldron, V Murthy - IEEE Transactions on Robotics and Automation, 1990 - ieeexplore.ieee.org

... 4. AUGUST 1990 Direct Kinematic Solution of a **Stewart Platform** PRABJOT NANUA, KENNETH

J. WALDRON, AND VASUDEVA MURTHY ... The **Stewart platform** [2], shown in Fig. ...

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The NIST robocrane

J Albus, R Bostelman, N Dagalakis - Journal of Robotic Systems, 1993 - interscience.wiley.com

... These concepts utilize the basic idea of the **Stewart platform** parallel link manipulator ...

1. Design concept for improving stiffness of crane **suspension** mechanisms ...

Cited by 153 - Related articles - Web Search - BL Direct - All 3 versions

[CITATION] A Robotic Crane System Utilizing the **Stewart Platform** Configuration

R Bostelman, N Dagalakis, J Albus - Robotics and manufacturing: recent trends in research, ..., 1992 - American Society of Mechanical Engineers

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[PDF] ► Applications of the NIST RoboCrane

R Bostelman, J Albus, N Dagalakis, A Jacoff, J ... - Proc. of the 5 th International Symposium on Robotics and ..., 1994 - isd.cme.nist.gov

... have proved much of the theory and performance of a **Stewart Platform** parallel link ...

Since the work platform needs only three **suspension** points for the six cables ...

Cited by 24 - Related articles - View as HTML - Web Search - All 8 versions

Stability of an underwater work platform suspended from an unstable reference- ► psu.edu

[PDF]

RV Bostelman, JS Albus - OCEANS'93.'Engineering in Harmony with Ocean'. Proceedings, 1993 - ieeexplore.ieee.org

... If very deep **Stewart Platform** applications are necessary, two scenarios are possible:

1 ... cylinder projected below the upper platform cable **suspension** lines and ...

Cited by 6 - Related articles - Web Search - BL Direct - All 9 versions

Conditions for line-based singularities in spatial platform manipulators

F Hao, JM McCarthy - Journal of Robotic Systems, 1998 - interscience.wiley.com

... supporting chain. These conditions are satisfied by many manipulator systems, particularly those based on the **Stewart platform**. A ...

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The experimental performance of a mobile manipulator control algorithm- ► mit.edu [PDF]

NAM Hootsmans, S Dubowsky, PZ Mo - 1992 IEEE International Conference on Robotics and ..., 1992 - ieeexplore.ieee.org

... kv and bv are, respectively, the stiffness and damping of the vehicle **suspension**. ...

8. The VES is a six DOF hydraulically actuated **Stewart platform** developed for ...

Cited by 16 - Related articles - Web Search - All 5 versions

[PDF] ► Development of the NIST Robot Crane Teleoperation Controller

NG Dagalakis, JS Albus, RV Bostelman, J Fiala - Robotics and Remote Handling Proceedings, Fifth Topical ...,

1993 - citeseerx.ist.psu.edu

... The joystick was another small size **Stewart platform** mechanism shown in Figure 3.

The ... of the two platforms and the coordinates of the **suspension** points, with ...

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Analysis of a novel 6-DOF, 3-PPSP parallel manipulator

YK Byun, HS Cho - The international journal of robotics research, 1997 - ijr.sagepub.com

... Various concepts for a 6-DOF parallel manipulator have been proposed, such as the

Stewart platform (1965), which has been the most widely researched. ...

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[CITATION] Emulating micro-gravity in laboratory studies of space robotics

TRJ Corrigan, S Dubowsky - Robotics: kinematics, dynamics and controls: presented at ..., 1994 - American Society of Mechanical Engineers

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NAM Hootsmans, S Dubowsky, PZ Mo - 1992 IEEE International Conference on Robotics and ..., 1992 - [ieeexplore.ieee.org](#)

... kv and bv are, respectively, the stiffness and damping of the **vehicle suspension**. ... between the manipulator and its (emulated) **vehicle**, the **Stewart platform**. ...

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Experimental simulation of manipulator base compliance- ► [mit.edu](#) [PDF]

H West, N Hootsmans, S Dubowsky, N Stelman - Experimental Robotics 1, 1990 - Springer
... arbitrary trajectory on the base of a manipulator Emulate the weightlessness of a manipulator free floating in space Emulate a **vehicle suspension** including its ...

Cited by 13 - Related articles - Web Search - All 10 versions

A driving simulator as a virtual reality tool

WS Lee, JH Kim, JH Cho - 1998 IEEE International Conference on Robotics and ..., 1998 - [ieeexplore.ieee.org](#)
... drives a 6 degree-of-freedom **Stewart platform** for creating ... study for systematic development of the **vehicle** models. For chassis and **suspension** motion, both a 16 ...

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The NIST robocrane

J Albus, R Bostelman, N Dagalakis - Journal of Robotic Systems, 1993 - [interscience.wiley.com](#)
... for improving stiffness of crane **suspension mechanisms** ... was first embodied in a **Stewart platform** for testing ... Coordination of **vehicle track** motions to accomplish ...

Cited by 153 - Related articles - Web Search - BL Direct - All 3 versions

[CITATION] A Robotic Crane System Utilizing the Stewart Platform Configuration

R Bostelman, N Dagalakis, J Albus - Robotics and manufacturing: recent trends in research, ..., 1992 - American Society of Mechanical Engineers

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[CITATION] The Kookmin University driving simulators for vehicle control system development and human factor ...

WS Lee, JH Kim, JH Cho, SJ Lee - Driving Simulation Conference, 1999

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[PDF] ► Applications of the NIST RoboCrane

R Bostelman, J Albus, N Dagalakis, A Jacoff, J ... - Proc. of the 5 th International Symposium on Robotics and ..., 1994 - [isd.cme.nist.gov](#)

... gantry, containing three upper **suspension** points for ... If very deep **Stewart Platform** applications are necessary, two ... possible: 1) a subsea **vehicle** could suspend ...

Cited by 24 - Related articles - View as HTML - Web Search - All 8 versions

Operational envelopes for working bodies of mechanisms and manipulators

EJ Haug, FA Adkins, CM Luh - Journal of mechanical design, 1998 - link.aip.org

... Examples involving a planar **Stewart platform** with a dome attached and the wheel assembly of a **vehicle suspension** system in three dimensions are analyzed ...

Cited by 7 - Related articles - Web Search - BL Direct - All 3 versions

[CITATION] Emulating micro-gravity in laboratory studies of space robotics

TRJ Corrigan, S Dubowsky - Robotics: kinematics, dynamics and controls: presented at ..., 1994 - American Society of Mechanical Engineers

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Key authors: [P Nanua](#) - [J Albus](#) - [R Bostelman](#) - [K Waldron](#) - [V Murthy](#)

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"stewart platform" automobile suspension 1970 - 2001 Search Ad Sc Sc

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Direct kinematic solution of a Stewart platform

P Nanua, KJ Waldron, V Murthy - IEEE Transactions on Robotics and Automation, 1990 - [ieeexplore.ieee.org](#)
 ... 4. AUGUST 1990 Direct Kinematic Solution of a **Stewart Platform** PRABJOY NANUA, KENNETH
 J. WALDRON, AND VASUDEVA MURTHY ... The **Stewart platform** [2], shown in Fig. ...
 Cited by 184 - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

The experimental performance of a mobile manipulator control algorithm- ► [mit.edu](#) [PDF]

NAM Hootsmans, S Dubowsky, PZ Mo - 1992 IEEE International Conference on Robotics and ..., 1992 - [ieeexplore.ieee.org](#)
 ... kv and b_y are, respectively, the stiffness and damping of the vehicle **suspension**. ...
 between the manipulator and its (emulated) vehicle, the **Stewart platform**. ...
 Cited by 16 - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

A driving simulator as a virtual reality tool

WS Lee, JH Kim, JH Cho - 1998 IEEE International Conference on Robotics and ..., 1998 - [ieeexplore.ieee.org](#)
 ... drives a 6 degree-of-freedom **Stewart platform** for creating ... study for systematic
 development of the vehicle models. For chassis and **suspension** motion, both a 16 ...
 Cited by 26 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 2 versions](#)

Experimental simulation of manipulator base compliance- ► [mit.edu](#) [PDF]

H West, N Hootsmans, S Dubowsky, N Steiman - Experimental Robotics I, 1990 - Springer
 ... arbitrary trajectory on the base of a manipulator Emulate the weightlessness of
 a manipulator free floating in space Emulate a vehicle **suspension** including its ...
 Cited by 13 - [Related articles](#) - [Web Search](#) - [All 10 versions](#)

[CITATION] The Kookmin University driving simulators for vehicle control system development and human factor ...

WS Lee, JH Kim, JH Cho, SJ Lee - Driving Simulation Conference, 1999
 Cited by 15 - [Related articles](#) - [Web Search](#) - [Library Search](#)

A study of the effects of the lower index methods on ADAMS sparse tableau formulation for the

...
 NV Orlandea - Proceedings of the Institution of Mechanical Engineers, Part ..., 1999 - Prof Eng Publishing
 ... The second example is an **automotive** five-link independent rear **suspension** as
 represented in Fig. ... Fig. 8 Five-link rear car **suspension** K01099 # IMechE 1999 ...
 Cited by 5 - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

A new analytical system applying 6 DOF parallel link manipulator for evaluating motion sensation

N Mimura, Y Funahashi - 1995 IEEE International Conference on Robotics and ..., 1995 - [ieeexplore.ieee.org](#)
 ... Some improvements are reported over the origi- nal **Stewart platform** [5],[6], but ...
 up an experimental method with high virtual reality using no real vehicle. ...
 Cited by 5 - [Related articles](#) - [Web Search](#) - [BL Direct](#)

On the cable car feed support configuration for FAST

R Gexue, L Qihai, Z Zhou - Astrophysics and Space Science, 2001 - Springer
 ... Parallel **suspension** and driving cables are arranged for ... The proposed cable-car

configuration separates the ... The **Stewart platform** (Stewart, 1965) has proved to ...
Cited by 1 - Related articles - Web Search - BL Direct - All 4 versions

Conditions for line-based singularities in spatial platform manipulators

F Hao, JM McCarthy - Journal of Robotic Systems, 1998 - interscience.wiley.com
... manipulating an object, 2 and special systems such as vehicle simulator platforms. ...
Figure 1. The **Stewart platform** is an example of a platform manipulator. ...
Cited by 49 - Related articles - Web Search - BL Direct - All 2 versions

Operational envelopes for working bodies of mechanisms and manipulators

EJ Haug, FA Adkins, CM Luh - Journal of mechanical design, 1998 - link.aip.org
... Examples involving a planar **Stewart platform** with a dome attached and the wheel
assembly of a vehicle **suspension** system in three dimensions are analyzed ...
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[PDF] ► **Modeling, simulation, and control of a hydraulic Stewart platform**

D Li, SE Salcudean - IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION, 1997 - ece.ubc.ca

... of a Hydraulic **Stewart Platform** D. Li and SE Salcudean ... The dynamic equations of the **Stewart platform** are derived using the virtual work principle. ...

Cited by 39 - Related articles - View as HTML - Web Search - BL Direct - All 4 versions

Experimental study of motion control and trajectory planning for a Stewart Platform robot manipulator

CC Nguyen, SS Antrazi, ZL Zhou, CE Campbell Jr - 1991 IEEE International Conference on Robotics and ..., 1991 - ieexplore.ieee.org

... Six **spring**-loaded pistons arranged also in a geometry similar to the **Stewart Platform** mech- anism are used to suspend the lower compliant plat- form from the ...

Cited by 12 - Related articles - Web Search

[PDF] ► **Force guided assemblies using a novel parallel manipulator**

DM Morris, R Hebbbar, WS Newman - IEEE International Conference on Robotics and Automation, 2001 - vorlon.cwru.edu

... difficult mechanical assemblies within an **automotive** transmission ... pairs, like the Modified **Stewart Platform**, to increase ... of the vertical virtual **spring**; 2) the ...

Cited by 7 - Related articles - Web Search - BL Direct - All 6 versions

Stewart-platform-based inlet duct painting system

K Liu, R Glenn, TJ Lawley, FL Lewis - 1993 IEEE International Conference on Robotics and ..., 1993 - ieexplore.ieee.org

... isolated subsystems: the mobile base, the **Stewart platform**, and the ... It can **auto-** matically navigate in an inlet ... a rather ingenious design of **springs** and levers ...

Cited by 3 - Related articles - Web Search - BL Direct

Kinetostatic modeling of N-DOF parallel mechanisms with a passive constraining leg and prismatic ...

D Zhang, CM Gosselin - Journal of Mechanical Design, 2001 - link.aip.org

... platform known as the "Gough-**Stewart** **platform**" was introduced ... stiffness of the virtual **springs** is determined ... Papers on Research in **Automobile** Stability and ...

Cited by 21 - Related articles - Web Search - BL Direct - All 3 versions

[PDF] ► **A coarse-fine approach to force-reflecting hand controller design**

L Stocco, SE Salcudean - IEEE International Conference on Robotics and Automation, 1996 - ece.ubc.ca

... ranging from 1 to 10 N/mm and the same **spring** with a braking ... in terms of their complexity and workspace; a prismatically actuated "**Stewart**" **platform** [7], a ...

Cited by 21 - Related articles - View as HTML - Web Search - BL Direct - All 3 versions

Tetrobot: A modular approach to parallel robotics

GJ Hamlin, AC Sanderson - IEEE Robotics & Automation Magazine, 1997 - ieexplore.ieee.org

... 0 1 7 Double **Stewart Platform** 0 2 7 3 2-1 **Stewart Platform** 3 0 0.6 ... The **spring** characteristics are chosen so that they tend to keep the actuators within their ...

Cited by 36 - Related articles - Web Search - BL Direct - All 2 versions

Architecture singularities of platform manipulators

O Ma, J Angeles - 1991 IEEE International Conference on Robotics and ..., 1991 - [ieeexplore.ieee.org](#)

Page 1. Proceedings of the 1991 IEJ3E International Conference on Robotics and

Automation Sacramento, California - April 1991 Architecture ...

Cited by 83 - [Related articles](#) - [Web Search](#)

KAIST interactive bicycle simulator- ▶ [dryoo.net](#) [PDF]

DS Kwon, GH Yang, CW Lee, JC Shin, Y Park, B Jung, ... - IEEE International Conference on Robotics and Automation, ..., 2001 - [ieeexplore.ieee.org](#)

... Various vehicle simulators such as **automobile**, bicycle, flight ... digital servo control of the **Stewart platform** have been ... model the tire as a **spring-damper** system ...

Cited by 19 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 15 versions

[PDF] ▶ Development of the NIST Robot Crane Teleoperation Controller

NG Dagalakis, JS Albus, RV Bostelman, J Fiala - Robotics and Remote Handling Proceedings, Fifth Topical ..., 1993 - [citeseerx.ist.psu.edu](#)

... The joystick was another small size **Stewart platform** mechanism shown ... applied to a steel leaf **spring** plate mounted ... this case is similar to an **automobile** throttle ...

Cited by 5 - [Related articles](#) - [View as HTML](#) - [Web Search](#) - All 7 versions

Key authors: [J Albus](#) - [S Salcudean](#) - [D Li](#) - [O Ma](#) - [G Hamlin](#)

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"stewart platform" "coil spring"

1970

- 2001

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Tip: Try removing quotes from your search to get more results.

Haptic pointing devices

D Haanpaa, G Siebert, T Cussen, K Fifer, M ... - US Patent App. 09/761,463, 2001 - Google Patents

... feed through a hollow universal joint (implemented with a **coil spring**) Stylus or ...

is a drawing used to introduce and illustrate a "**Stewart platform**," forming a ...

Cited by 2 - [Related articles](#) - [Web Search](#) - All 4 versions

Analysis of a planar 3 degree-of-freedom adjustable compliance mechanism

WK Kim, DG Kim, BJ Yi - Journal of Mechanical Science and Technology, 1996 - Springer

... proposes a compliance device which uses the shape of **Stewart platform** mechanism

that ... To obtain a passive compliance effect, a passive **coil spring**, a rubber, a ...

Cited by 1 - [Related articles](#) - [Web Search](#) - All 2 versions

book Stiffness and damping in mechanical design

EI Rivin - 1999 - books.google.com

Page 1. EUGENE 1. R1V1N Page 2. Page 3. Page 4. Page 5. Stiffness and Dampin

in Mechanics Design This One 4ECR-G5F-S1BW Page 6. Page 7. ...

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[Geometric analysis of antagonistic stiffness in redundantly actuated parallel mechanisms](#)

BJ Yi, RA Freeman - Journal of Robotic systems, 1993 - interscience.wiley.com

... Hogan? modeled equilibrated axes consisting of passive springs and discussed the concept of open-loop disturbance rejection and nonlin- ear **spring design**. ...

Cited by 23 - Related articles - Web Search - BL Direct - All 3 versions

[Static balancing of 3-DOF planar parallel mechanisms](#)

T Laliberte, CM Gosselin, M Jean - IEEE/ASME transactions on mechatronics, 1999 - ieeexplore.ieee.org

Page 1. IEEE/ASME TRANSACTIONS ON MECHATRONICS, VOL. 4, NO. 4, DECEMBER 1999

363 Static Balancing of 3-DOF Planar Parallel Mechanisms ...

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[\[book\] Robotics and manufacturing: recent trends in research, education, and applications: proceedings of ...](#)

M Jamshidi - 1992 - American Society of Mechanical Engineers

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[Development and demonstration of a teleoperated modular robot system. Bi-monthly progress report. ...](#)

S Tosunoglu, D Tesar - 1992 - osti.gov

... architecture for active **spring design**. ... A redundantly actuated **Stewart**

platform-type manipulator has been studied as an illustrative example. ...

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[Development and demonstration of a teleoperated modular robot system](#)

S Tosunoglu, D Tesar - 1992 - osti.gov

... architecture for active **spring design**. ... A redundantly actuated **Stewart**

platform-type manipulator has been studied as an illustrative example. ...

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[\[book\] Fundamentals of robotics](#)

DD Ardaylio - 1987 - books.google.com

... **Spring Design** with an IBM PC, by Al Dietrich Mechanical Design Failure Analysis:

With Failure Analysis System ... **Stewart Platform** Based on Regular Octahedron ...

Cited by 8 - Related articles - Web Search - Library Search

Key authors: [B Yi](#) - [T Laliberte](#) - [R Freeman](#) - [C Gosselin](#) - [M Jean](#)



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P Gregorio - 1994 - [citeseerx.ist.psu.edu](#)

Page 1. Design, Control and Energy Minimization Strategies for the ARL Monopod

Pedro Gregorio TR-CIM-94-09 September 1994 Ambulatory ...

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Magnetostrictive actuator

CH Joshi, BR Bent - US Patent 6,246,132, 2001 - [Google Patents](#)

Page 1. US006246132B1 (12) United States Patent Joshi et al. (io) Patent

No.: US 6,246,132 B1 (45) Date of Patent: Jun. 12, 2001 (54 ...

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Exact methods for determining the kinematics of a **Stewart platform** using additional displacement ...

KC Cheok, JL Overholt, RR Beck - Journal of Robotic Systems, 1993 - interscience.wiley.com

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The configuration of a **Stewart platform** (SP) supporting a Crew station/ ...

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Design analysis of a **Stewart platform** for vehicle emulator systems- ► [mit.edu](#) [PDF]

H West, Y Gong - 1992 - dspace.mit.edu

DESIGN ANALYSIS OF A **STEWART PLATFORM** FOR VEHICLE EMULATOR SYSTEMS by ... ARC-JI ;;

Page 2. DESIGN ANALYSIS OF A **STEWART PLATFORM** FOR VEHICLE EMULATOR SYSTEMS by ...

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A new method for solving the direct kinematics of general 6-6 Stewart platforms using three linear ... - ► [etsmtl.ca](#) [PDF]

IA Bonev, J Ryu - Mechanism and machine theory, 2000 - Elsevier

... DOF parallel manipulator, also called a **Stewart Platform** (SP), consists ... roots of

this polynomial, we **substitute** for each ... is guaranteed by a **spring** connected to ...

Cited by 18 - Related articles - Web Search - BL Direct - All 6 versions

Active system for vibration isolation of spacecraft instruments

EH Anderson, DJ Leo, MD Holcomb - ADVANCES IN THE ASTRONAUTICAL SCIENCES, 1996 -

csaengineering.com

... over almost directly to the **Stewart platform** system. ... include: modifications to the

actuator **spring**; further multi ... delivery, the UQP will **substitute** in defining ...

Cited by 6 - Related articles - Web Search - BL Direct - All 2 versions

Kinematic decoupling in mechanisms and application to a passive hand controller design-

► [mcgill.ca](#) [PDF]

V Hayward, C Nemri, X Chen, B Duplat - Journal of Robotic Systems, 1993 - interscience.wiley.com

... By construction, the contribution of the **springs** to joint forces is $h = K p$ (3)

with K diagonal. ... we **substitute** for h, and p in (2) and (3): $w = JTKJ x$ (4) ...

Cited by 15 - Related articles - Web Search - BL Direct - All 8 versions

[PDF] ► Development of design equations for self-deployable n-strut tensegrity systems

IP Stern - 1999 - citeseerx.ist.psu.edu

... platforms. Page 8. 3 The n-strut tensegrity is studied by rotating the top platform

of a **Stewart platform** to ... based on a **spring** constant. This ...

Cited by 20 - Related articles - View as HTML - Web Search - Library Search - All 5 versions

Transient dynamics of a lightly damped, roll-forced pendulum

MD Todd, ST Vohra - Dynamical Systems, 1998 - informaworld.com

... We **substitute** equation (6) and its appropriate ... and-pendulum system was placed upon

the **Stewart platform**. ... displacement was achieved through **spring**-loaded cables ...

Cited by 1 - Related articles - Web Search - BL Direct

Kinematic calibration of the parallel Argos mechanism

P Vischer, R Clavel - Robotica, 2001 - Cambridge Univ Press
... internal transducers of the mechanism. They applied their method to a **Stewart Platform**, too. Special measurement sets were acquired ...
Cited by 1 - Related articles - Web Search - BL Direct - All 4 versions

[PDF] ► Kinematic design of an ophthalmic surgery robot and feature extracting bilateral manipulation

KW Grace - 1995 - lms.mech.northwestern.edu

... the physical design of a **Stewart Platform** can be divided into two classes: (1) legs either pull or push against an antagonistic force (ie a **spring** pushes the ...

Cited by 11 - Related articles - View as HTML - Web Search - Library Search - All 4 versions

Table online neural control of systems with closed kinematic chains

MJ Randall, AFT Winfield, AG Pipe - IEE Proceedings-Control Theory and Applications, 2000 - ieeexplore.ieee.org

... to adapt to the presence of a nonlinear elastic **spring** attached to ... of systems represented by the hexapod, which includes the **Stewart platform** (also sometimes ...

Cited by 2 - Related articles - Web Search - BL Direct - All 2 versions

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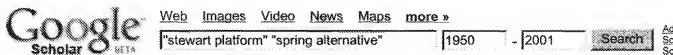
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parallel platform suspension

1950

- 2001

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Controllable platform suspension system for treadmill decks and the like and devices therefor

RS Gureghian, JD Carlson, DF LeRoy, RH Marjoram, ... - US Patent 5,993,358, 1999 - Google Patents

... The controllable **platform suspension** system 20a described herein ... A controllable**suspension** system 20a flexibly suspends ... 42a is attached in **parallel** spring 25 ...Cited by 12 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Platform type weighing scale

MA Provi, SR Guinter - US Patent 4,023,634, 1977 - Google Patents

... respectively nonro- 50 and second relatively **parallel** torque members ... said first andsecond ble base **suspension** member and a flexible **platform** torque members ...Cited by 15 - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

SUSPENSION-TYPE STRAIN GAGE TRANSDUCER STRUCTURE

E LAIMINS - US Patent 3,512,595, 1970 - Google Patents

... stable **platform suspension** which both resists lateral dis -placements ... incorporatesa load-carrying **platform** 35 r ... improved by separating the **parallel** upper and ...Cited by 20 - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

WHEELED COASTING DEVICE

P Cudmore - US Patent 3,795,409, 1974 - Google Patents

... has an approximately 90° twist therein, said **suspension** arm portion having its majorhorizontal dimension **parallel** to the front of said **platform** at its upper ...Cited by 11 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[PDF] ► Optimum Stiffness Study for a Parallel Link Robot Crane Under Horizontal Force

J Unger, NG Dagalakis, TM Tsai, JD Lee - Proceedings of the Second International Symposium on ..., 1988 - [isd.mel.nist.gov](#)OPTIMUM STIFFNESS STUDY FOR A PARALLEL LINK ROBOT CRANE UNDER ... side of the equilateral triangle formed by the three **suspension** points of the lower **platform**. ...Cited by 8 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

HARVESTER PLATFORM SUSPENSION AND LINKAGE SYSTEM

US Patent 3,783,594, 1974 - Google Patents

... 'n **parallel** relations spaced ... 40 ter line 36 of the **platform**. ... 3 and 5. The inventionprovides an improved **suspension** and In addition to a cutter assembly shown ...Cited by 5 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

The NIST robocrane

J Albus, R Bostelman, N Dagalakis - Journal of Robotic Systems, 1993 - [interscience.wiley.com](#)... wherein the cables and potentiometers remain roughly **parallel**, the ROBOCRANE ... thoseposes of the robot lower **platform** at which ... in one or more of the **suspension** ...Cited by 153 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 3 versions](#)

Parallel multipole BEM simulation of two-dimensional suspension flows

AA Mammoli, MS Ingber - Engineering Analysis with Boundary Elements, 2000 - Elsevier

Page 1. **Parallel** multipole BEM simulation of two-dimensional **suspension** flows

AA Mammoli *, MS Ingber Department of Mechanical Engineering ...

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HARVESTING PLATFORM SUSPENSION SYSTEM

US Patent 3,808,781, 1974 - [Google Patents](#)

... of the forward end of One type of known **suspension** mechanism is a four- the windrower with the **platform** in its lowered operat- bar or **parallel-linkage system** ...

[Cited by 2](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

Direct kinematic solution of a Stewart platform

P Nanua, KJ Waldron, V Murthy - IEEE Transactions on Robotics and Automation, 1990 - [ieeexplore.ieee.org](#)

... PRABJOT NANUA, KENNETH J. WALDRON, AND VASUDEVA MURTHY Abstmct-The Stewart **platform** is a fully **parallel**, six-degree-of- freedom manipulator mechanism. ...

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Adjustable support device for a vehicle

HC Staples - US Patent 3,355,136, 1967 - Google Patents

 ... device in engagement with the bumper of an **automobile**, shown in ... axis of the hole is in a 25 plane **parallel** to the projection in plan of the **platform** and is ...

 Cited by 11 - [Related articles](#) - [Web Search](#) - All 2 versions

Automobile passenger comfort assured through LQG/LQR active **suspension**- ► [psu.edu](#)

(PDF)

 HD Taghirad, E Esmailzadeh - Journal of Vibration and Control, 1998 - [jvc.sagepub.com](#)

 ... For an **automotive suspension** this is achieved through a mechanical device called an active damper which is used in **parallel** to a conventional spring. The ...

 Cited by 26 - [Related articles](#) - [Web Search](#) - BL Direct - All 6 versions

Model racing car having an improved rear wheel **suspension**

RW Raleigh - US Patent 4,159,126, 1979 - Google Patents

 ... at the front and rear of the car, respectively ... centerline Z axis, permit the mounting **platform** 19 to ... an axis of rotation extending generally **parallel** to the ...

 Cited by 5 - [Related articles](#) - [Web Search](#) - All 2 versions

MAGNETIC SUSPENSION SYSTEM

LWC Park - US Patent 3,589,300, 1971 - Google Patents

 ... 12 and 1 14 positioned about a vehicle 116 which ... tube provides the guide channel for the vehicles **platform** 1 10 ... coil was also placed near and **parallel** to the ...

 Cited by 13 - [Related articles](#) - [Web Search](#) - All 2 versions

VEHICLE SUSPENSION

O Granning - US Patent 3,747,948, 1973 - Google Patents

 ... fastening guide structure about an axis **parallel** to the ... end of the **suspension**, said differences in vehicle frame sizes ... truck frame and a support **platform** 193 to ...

 Cited by 10 - [Related articles](#) - [Web Search](#) - All 5 versions

Belted vehicle **suspension** system

RJ Purcell - US Patent 4,923,257, 1990 - Google Patents

 ... portion 56, first and second spaced apart **parallel** wheels hub ... a load 96 is applied to the **platform** 94, and ... necessary for efficient operation of the vehicle 10. ...

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[CITATION] **Platform** and modular concepts at volkswagen-their effect on the assembly process

 B Wilhelm - Transforming **automobile** assembly: experience in automation ..., 1997 - Springer Verlag

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Vehicle **suspension** and steering system

JL Grove, JL Hockensmith, AB Coffman - US Patent 4,534,575, 1985 - Google Patents

 ... are mounted in a tandem and **parallel** relationship. ... enhances safety in operation of the vehicle or work ... either direction to pivot the steering **platform** levers 54 ...

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Cam operated vehicle **suspension** system

LJ Holt - US Patent 5,839,742, 1998 - Google Patents

... ti"n- arm, into linear movement **parallel** to the ... ring and each energy storage medium **platform** independently of ... wheel and hub assembly and the vehicle body to ...

Cited by 4 - Related articles - Web Search - All 2 versions

A new analytical system applying 6 DOF **parallel** link manipulator for evaluating motion sensation

N Mimura, Y Funahashi - 1995 IEEE International Conference on Robotics and ..., 1995 - ieeexplore.ieee.org

... are reported over the origi- nal Stewart **platform** [5],[6] ... method with high virtual reality using no real vehicle. ... is made up of 6 DOF **parallel** link mechanism ...

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... turns to the opposite direction, the vehicle is accelerated ... The first attempt of an **active** compensation was ... The **Stewart Platform** is a six degree of freedom ...

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Active vibration isolation using adaptive feedforward control

EH Anderson, JP How, CSAE Inc, P Alto - American Control Conference, 1997. Proceedings of the 1997, 1997 - ieeexplore.ieee.org

... are ineffec- tive below the **suspension** frequencies of ... neuvering loads in a vehicle, and t,hen ... Fully **active** isolation systems introduce fundamental advan- tages ...

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K Kobayashi, K Watanabe, KC Cheok, GE Smid - 1999 - rose.lib.hosei.ac.jp

... advanced vehicle control for the **active** safety purpose ... Edzko Smid: Simulation of Vehicle Dynamics using ... 9] Murali Yeddanapudi: The **Stewart Platform**: Non-Linear ...

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Automated assembly of lightweight automotive components

K Feldmann, B Müller, T Haselmann - CIRP Annals-Manufacturing Technology, 1999 - Elsevier

... using a cardanic **suspension** or a **Stewart platform** will be ... they are used in the **automotive** manufacture, because ... methods of passive and **active** tolerance balance ...

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... levels of the launch vehicle shrouds at ... isolation system using a **Stewart Platform** configuration and ... the research into space applications, **active** damping was ...

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A robotically assisted munition loading system

CC Nguyen, ZL Zhou, MD Bryfogle - Journal of Robotic Systems, 1995 - interscience.wiley.com

... valve levers to control the three **active** DOFs of ... pension hooks with respect to the **suspension** lugs must ... Number BA40105, manufactured by Lucas **Automotive** Sensors ...

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... Disc, its alignment is kept constant by the **parallel mechanism**. ... the motions of a differential drive vehicle (shown in ... (a) Bottom view of the **active** Omni-Disc ...

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[Innovative concept for wheeled locomotion in rough terrain](#)

R Siegwart, T Estier, Y Crausaz, B Merminod, M ... - Intelligent Autonomous Systems 6, 2000 - books.google.com

... it is yet imaginable to perform **active** locomotion, which ... 7), the vehicle has one wheel mounted on a ... any time and its particular **parallel mechanism** produce an ...

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[14.12 Mobile, Flexible-Link, and Parallel-Link Robots](#)

K Liu - Mechanical Engineering Handbook, 1999 - books.google.com

... the environment surrounding the car using onboard ... analysis for the fully **parallel mechanism** (eg, given ... in mechanized assembly, and in **active** vibration control. ...

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... can regard the Adaptive **Suspension** Vehicle (ASV) Hexapod there described as an inverted multi-finger multi-freedom gripper grasping the earth's surface. ...

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A Beenackers, WPM Van Swaaij - Chemical Engineering Science, 1993 - doc.utwente.nl

... A = 0 and in a real **parallel mechanism** of the ... particles in aqueous solutions of carboxymethylcellulose, the ... Probably due to its large **active** area available ...

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... **Suspension** system of **automobile** requires springs, stiffness of which can actively be adjustable depending on road surface roughness[3][9]. Another closely ...
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... effector of a manipulator or the vehicle body a ... of a 6 degree of freedom (dof)
3-PRPS **parallel mechanism**. ... with three supporting legs has nine **active** joints and ...
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Suppression of oxidative damage by Saccharomyces cerevisiae ATX2, which encodes a manganese- ... - ► nih.gov [PDF]

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... through the hyperaccumulation of redox-**active** copper ions ... Double-stranded DNA sequencing was carried out by the ... cushion and were lysed by **suspension** in 5.0 ...
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... Restriction or **suspension** of gold convertibility in much of the world during and after World War I led to an international currency inflation (that is, an in ...

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... of the Space Test Research **Vehicle** (STRV)-2 ... over almost directly to the **Stewart platform** system ... more conventional architecture of a parallel **active-passive** system ...

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... advanced **vehicle** control for the **active** safety purpose ... Edzko Smid: Simulation of **Vehicle** Dynamics using ... 9] Murali Yeddanapudi: The **Stewart Platform**: Non-Linear ...

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... cables ar- ranged as a **Stewart platform** (see Fig ... This behavior becomes **active** when ultrasonic range measure ... obstacles are within a specified **vehicle** safety zone ...

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... levels of the launch **vehicle** shrouds at ... isolation system using a **Stewart Platform** configuration and ... the research into space applications, **active** damping was ...

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... rotates around the center of the Omni-Disc, its alignment is kept constant by the **parallel mechanism**. Thus, when the direction of the **chassis** changes suddenly ...

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... tion problem for a **parallel mechanism** is typically straightforward, whereas for a serial arm ... 9801FA 80486-based PC with a Contec FA-PAC 1/0 expansion **chassis**. ...

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... of the retractor defining a through-passage having substantially **parallel mechanism**

31 ... 60 which may be substantially housing to part of the **chassis**, said strap ...

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[DRIVE MECHANISMS](#)

EJ Aldred - US Patent 3,854,271, 1974 - Google Patents

... in the electrical circuit of the machine that two sides of the **chassis** 10, then the ... 7 8 fluid from both pumps 22 and 24 operating in **parallel mechanism** of this ...

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... MW Griffis, J Duffy - US Patent 5,179,525, 1993 - Google Patents

... and apparatus for controlling, via a closed-form forward displacement computation, the position and orientation of a movable platform of a **parallel mechanism**. ...

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... **parallel mechanism** for light weight The less the weight of master arm, surely the better ... of a UNIX host machine and target CPU board within a VMEbus **chassis**. ...

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... 8. The wrist subsystem of the UPSarm consists of two in-par-allel actuators; it is quite different in design from the **parallel mechanism**, investigated by Hunt ...

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[REPEAT MAGNETIC TAPE MACHINE](#)

US Patent 3,531,575, 1970 - Google Patents

... 7. It has a rectangular **chassis** or **frame 10** on the front portion of which are ... When the button 71 is released the **parallel mechanism** is restored to its initial ...

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... forearm of a human. In doing so, it benefits from the intrinsic characteristics of a **parallel mechanism**. That invention in its ...

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such SP-based platforms for inducing dynamic vehicular **chassis** motions of ...

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used 6 DOF **Stewart platform**, driven hydraulically, has been chosen to be ...

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... computer manual Amplifier Chassis (1 of 6) Winch #1 ... **Stewart Platform** Joystick Figure

2 - Robocrane Control System Architecture showing one of six channels ...

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Multipurpose virtual-reality-based motion simulator

CT Lin, IF Chung, SA Liann, FY Su - Intelligent Control and Automation, 2000. Proceedings of the ..., 2000 - ieeexplore.ieee.org

... 2.3 Washout Algorithm Generally, in the **Stewart platform**, it is difficult to ... 6, angular

velocities and linear accelerations of the vehicle **chassis** that are ...

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... kinematics of this machine is similar to the well- known **Stewart platform**, but instead ...

is based on a 300MHz PowerPC 604e RISC-Processor board in a VME **chassis**. ...

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... Six-axis Isolation Mount Six identical struts or mounts comprise the **Stewart platform**. ...

Its aluminum **chassis** is of a unique shape designed to take advantage of ...

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... is shown in Figure 3. The host computer is an NEC 9801FA 80486-based PC with a Contec FA-PAC 1/0 expansion **chassis**. ... (a) Conventional **Stewart Platform** (b) MEL ...
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... 8. The simulation is performed as the tyre support platform applies a 0.1 m upwards step at 0.5 s and a 0.1 m downwards step at 1.2 s. The **chassis** is grounded. ...
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KC Wilhelmsen, RL Hurd, S Couture, G Augusta - 7th Topical meeting on Robotics and Remote Systems, 1997 - osli.gov
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WW Anderson, NJ Groom - US Patent 4,088,018, 1978 - Google Patents
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NAM Hootsmans, S Dubowsky, PZ Mo - 1992 IEEE International Conference on Robotics and ..., 1992 - [ieeexplore.ieee.org](#)

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... a wide variety of linear and non-linear **six- degree-of-freedom** compliances. ... of a manipulator free floating in space Emulate a vehicle **suspension** including its ...

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... The IDS consists of the large, **six degree-of-freedom**, hexapod motion base and ... It is used to represent the vehicle chassis, **suspension**, and steering ...

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... Genghis a (Angle 1989) 0.39 1.8 0.038 0.097 Adaptive **Suspension** Vehicle a (Pugh
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 ... **freedom** system, in which bounce, longitudinal and pitch motions are included ... it is
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... this paper we describe a six degree of freedom positioning stage ... design of a magnetic suspension balance in ... Mechanical Design Active magnetic bearings achieve ...

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... Thus, the electric suspension can be used to hold the plate in a ... essay to provide six degree of freedom stability, the re-ported design is chosen because of ...

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... of a magnetically suspended six degree of freedom positioning system ... degree of freedom magnetic suspension date back ... frame also supports the active portion of ...

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 RL Hollis, SE Salcudean - in Proc. 6th Int&# 039; Symposium on Robotics Research, (..., 1993 - [eprints.kfupm.edu.sa](#)

... to be an area of active research. ... Dierences between Maxwell suspension and Lorentz levitation are ... vector while allowing full six-degree-of-freedom motion over ...

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... **Six degree of freedom** input devices are 40 often controllers of a virtual or imaginary ... foam, etc.) 252 Shaft actuator tab 281 Electrically **active** actuator 282 ...

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... construction is a new vehicle referred to as the **adaptive suspension** vehicle (ASV). ...

The blending function is only **active** when the optimal path enters within a ...

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... is approximately expressed as a sum of the linear sky hook damper and the ... minimizing

the same performance index, where the linear skyhook damper control has ...

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... The desired dynamics of the active system is that of a passive system

with a "skyhook damper" attached [10], [34]. Therefore ...

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M Ahmadian - Journal of Vibration and Control, 1999 - jvc.sagepub.com

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"Active Damper Using ER ... Yoshida and M. Nagai, "Sky-Hook Model Following ...

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... The skyhook semiactive policy emulates the ideal body displacement control

configuration of a passive damper "hooked" between the body mass and the "sky ...

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 ... rate 1.3 kN sam C output matrix d 1 control output vector d 2 Road output vector
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HS Lee, SB Choi - Journal of Intelligent Material Systems and Structures, 2000 - jim.sagepub.com
 ... hardware parts consist of the MR **damper**, current amplifier and hydraulic **damper**
 tester. The software part consists of the full-car model and the **skyhook** control algorithm ...
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X Wu, MJ Griffin - Journal of Sound and Vibration, 1997 - Elsevier
 ... designed to modulate the force generated by a passive device to approximate the
 force that would be generated by a **damper** connected to ground (**skyhook damper**). ...
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M Ahmadian - *Journal of Vibration and Control*, 1999 - [jvc.sagepub.com](#)

... Key Words: Semiactive, damper, vibration, isolation 1. INTRODUCTION ... add any energy to the system-they only dissipate energy (the same as a passive damper). ...

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Automotive active suspensions Part 1: basic principles

RA Williams - *Proceedings of the Institution of Mechanical Engineers, Part ...*, 1997 - Prof Eng Publishing

... rate 1.3 kN/s output matrix d 1 control output vector d 2 Road output vector f n natural frequency (Hz) F a actuator force (N) F s skyhook damper force (N) ...

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System non-linearities induced by skyhook dampers

M Ahmadian, B Reichert, X Song - *Shock and Vibration*, 2001 - IOS Press

... The nonlinearities induced by skyhook dampers are studied experimentally and ... show that the nonlinearities introduced by sky-hook dampers manifest themselves ...

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Performance and design consideration for continuously controlled semi-active suspension systems

SJ Heo, K Park, SH Hwang - *International Journal of Vehicle Design*, 2000 - Inderscience

... passive damping effect in the skyhook damper, and the ... and Nagai, M. (1998), 'Sky-hook model following ... using continuously modulated damper,' *Proceedings of ...*

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Vehicle dynamic analysis and evaluation of continuously controlled semi-active suspensions using ...

SH Hwang, SJ Heo, HS Kim, KI Lee - *Vehicle System Dynamics*, 1997 - [informaworld.com](#)

... continuous control methods should be introduced. The damping force of the ideal skyhook damper is ... where c_{...} is the damping coefficient of the skyhook damper. ...

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Analytical model of a magnetorheological damper and its application to the vibration control

G Pan, H Matsuhsa, Y Honda - Industrial Electronics Society, 2000. IECON 2000. 26th ..., 2000 - [ieeexplore.ieee.org](#)

... Numerical simulations are performed when the MR damper is used as the passive type damper on-off type damper and quasi-skyhook type damper The results show ...

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Electronically controllable vehicle suspensions

D Karnopp, G Heess - Vehicle System Dynamics, 1991 - [informaworld.com](#)

... An old idea is that of the "skyhook damper" [1], an unrealistic damper which ... &

Skyhook damper f irvering passive force generating elements II ...

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Nonlinear adaptive control of active suspensions

A Alleyne, JK Hedrick - IEEE Transactions on Control Systems Technology, 1995 - [ieeexplore.ieee.org](#)

... The desired dynamics of the active system is that of a passive system

with a "skyhook damper" attached [10], [34]. Therefore ...

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Key authors: [S Choi](#) - [M Ahmadian](#) - [S Elliott](#) - [D Karnopp](#) - [R Williams](#)

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skyhook damper

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[PDF] ► **Modeling, simulation, and control of a hydraulic Stewart platform**

D Li, SE Salcudean - IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION, 1997 - ece.ubc.ca

... The control of the **Stewart platform** based vehicle emulation system at MIT was discussed in 9 . This paper makes the following contributions: 1 the platform ...

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Singularity analysis and representation of the general Gough-Stewart platform

BM St-Onge, CM Gosselin - The International Journal of Robotics Research, 2000 - ijr.sagepub.com

... **Stewart Platform** Abstract ... KEY WORDS—singularities, parallel manipulators, Gough-**Stewart platform**, singularity loci, parallel mechanisms 1. Introduction ...

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High speed tracking control of Stewart platform manipulator via enhanced sliding mode control

NI Kim, CW Lee - 1998 IEEE International Conference on Robotics and ..., 1998 - ieeexplore.ieee.org

... Practical usage of the **Stewart platform** manipulator (SPM), the most famous 6 degree-of- ... payload conditions such as motion base of the classical **automobile**[2] or ...

Cited by 21 - Related articles - Web Search - BL Direct

Active acceleration compensation using a Stewart-platform on amobile robot- ► uni-

karlsruhe.de [PDF]

R Graf, R Dillmann - Advanced Mobile Robots, 1997, Proceedings., Second EUROMICRO ..., 1997 - ieeexplore.ieee.org

... As test vehicle for the **Stewart platform** we use dif- ferent autonomous mobile robots which have been build at our institute or in cooperation with indus- trial ...

Cited by 12 - Related articles - Web Search - All 5 versions

The Stewart-Gough platform of general geometry can have 40 real postures- ► psu.edu [PDF]

P Dietmaier - Advances in Robot Kinematics: Analysis and Control, 1998 - books.google.com

... Contribution to discussion to papers on research in **automobile** stability and ... Raghavan, M.,(1993): The **Stewart platform** of general geometry has 40 configurations ...

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A new algorithm based on two extra-sensors for real-time computation of the actual configuration of ...

V Parenti-Castelli, R Di Gregorio - Journal of Mechanical Design, 2000 - link.aip.org

... **Auto**. Div. Instn Mech. ... 1135-1141. Wen, FA, and Liang, CG, 1994, "Displacement Analysis for the General **Stewart Platform**-Type Mechanism," Mech. Mach. ...

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Tetrobot modular robotics: Prototype and experiments

GJ Hamlin, AC Sanderson - Intelligent Robots and Systems' 96, IROS 96, Proceedings of ..., 1996 - ieeexplore.ieee.org

... on Robotics and **Auto**- mation, vol. 11, No. 6, pp. 794-806, December, 1995. 6. EF

Fichter, "A **Stewart Platform**-Based Manip- ulator: General Theory and ...

Cited by 45 - Related articles - Web Search

KAIST interactive bicycle simulator- ▶ dryoo.net [PDF]

DS Kwon, GH Yang, CW Lee, JC Shin, Y Park, B Jung, ... - IEEE International Conference on Robotics and Automation, ..., 2001 - ieeexplore.ieee.org

... tor/index.epi Nag-In Kim, "Robust motion control of **Stewart platform** manipulator and Its ... T. D. Gillespie, Fundamentals of Vehicle Dynamics, pp.335-376, 1992. ...

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[PDF] ▶ Applications of the NIST RoboCrane

R Bostelman, J Albus, N Dagalakis, A Jacoff, J ... - Proc. of the 5 th International Symposium on Robotics and ..., 1994 - isd.cme.nist.gov

... If very deep **Stewart Platform** applications are necessary, two scenarios are possible:

1) a subsea vehicle could suspend the work platform like a robot arm ...

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A driving simulator as a virtual reality tool

WS Lee, JH Kim, JH Cho - 1998 IEEE International Conference on Robotics and ..., 1998 - ieeexplore.ieee.org

... the simulator and also simulates a dynamic motion of realistic vehicle models in ... motion cue using a six degree-of-freedom **Stewart platform** driven hydraulically. ...

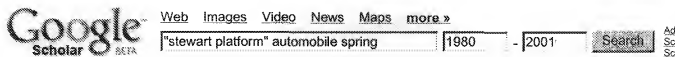
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Key authors: [S Salcudean](#) - [G Hamlin](#) - [C Gosselin](#) - [A Sanderson](#) - [D Li](#)

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D Li, SE Salcudean - IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION, 1997 - ece.ubc.ca

... of a Hydraulic **Stewart Platform** D. Li and SE Salcudean ... The dynamic equations of the **Stewart platform** are derived using the virtual work principle. ...

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Experimental study of motion control and trajectory planning for a Stewart Platform robot manipulator

CC Nguyen, SS Antrazi, ZL Zhou, CE Campbell Jr - 1991 IEEE International Conference on Robotics and ..., 1991 - ieeeexplore.ieee.org

... Six **spring-loaded** pistons arranged also in a geometry similar to the **Stewart Platform** mech- anism are used to suspend the lower compliant plat- form from the ...

Cited by 12 - Related articles - Web Search

[PDF] ► **Force guided assemblies using a novel parallel manipulator**

DM Morris, R Hebbbar, WS Newman - IEEE International Conference on Robotics and Automation, 2001 - vorlon.cwrw.edu

... difficult mechanical assemblies within an **automotive** transmission ... pairs, like the Modified **Stewart Platform**, to increase ... of the vertical virtual **spring**; 2) the ...

Cited by 7 - Related articles - Web Search - BL Direct - All 6 versions

Stewart-platform-based inlet duct painting system

K Liu, R Glenn, TJ Lawley, FL Lewis - 1993 IEEE International Conference on Robotics and ..., 1993 - ieeeexplore.ieee.org

... isolated subsystems: the mobile base, the **Stewart platform**, and the ... It can **auto-** matically navigate in an inlet ... a rather ingenious design of **springs** and levers ...

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Kinetostatic modeling of N-DOF parallel mechanisms with a passive constraining leg and prismatic ...

D Zhang, CM Gosselin - Journal of Mechanical Design, 2001 - link.aip.org

... platform known as the "Gough-**Stewart platform** was introduced ... stiffness of the virtual **springs** is determined ... Papers on Research in **Automobile** Stability and ...

Cited by 21 - Related articles - Web Search - BL Direct - All 3 versions

[PDF] ► **A coarse-fine approach to force-reflecting hand controller design**

L Stocco, SE Salcudean - IEEE International Conference on Robotics and Automation, 1996 - ece.ubc.ca

... ranging from 1 to 10 N/mm and the same **spring** with a braking ... in terms of their complexity and workspace; a prismatically actuated "**Stewart platform** [7], a ...

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Tetrobot: A modular approach to parallel robotics

GJ Hamlin, AC Sanderson - IEEE Robotics & Automation Magazine, 1997 - ieeeexplore.ieee.org

... 0 1 7 Double **Stewart Platform** 0 2 7 3-2-1 **Stewart Platform** 3 0 0 6 ... The **spring** characteristics are chosen so that they tend to keep the actuators within their ...

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Architecture singularities of platform manipulators

O Ma, J Angeles - 1991 IEEE International Conference on Robotics and ..., 1991 - ieeexplore.ieee.org

Page 1. Proceedings of the 1991 IEJ3E International Conference on Robotics and

Automation Sacramento, California - April 1991 Architecture ...

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KAIST interactive bicycle simulator- ▶ dryoo.net [PDF]

DS Kwon, GH Yang, CW Lee, JC Shin, Y Park, B Jung, ... - IEEE International Conference on Robotics and Automation, ..., 2001 - ieeexplore.ieee.org

... Various vehicle simulators such as **automobile**, **bicycle**, **flight** ... digital servo control of the **Stewart platform** have been ... model the tire as a **spring-damper** system ...

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[PDF] ▶ Development of the NIST Robot Crane Teleoperation Controller

NG Dagalakis, JS Albus, RV Bostelman, J Fiala - Robotics and Remote Handling Proceedings, Fifth Topical ..., 1993 - citeseerx.ist.psu.edu

... The joystick was another small size **Stewart platform** mechanism shown ... applied to a steel leaf **spring** plate mounted ... this case is similar to an **automobile** throttle ...

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Key authors: [J Albus](#) - [S Salcudean](#) - [D Li](#) - [O Ma](#) - [G Hamlin](#)

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